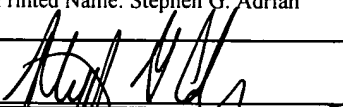


U.S. DEPARTMENT OF COMMERCE, PATENT AND TRADEMARK OFFICE		DATE: December 27, 2004
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. Application No. (if known): 10/519255
INTERNATIONAL APPLICATION NO.: PCT/JP03/16189	INTERNATIONAL FILING DATE: December 17, 2003	PRIORITY DATE CLAIMED: December 18, 2002
TITLE OF INVENTION: THERMOMECHANICAL TREATMENT METHOD FOR Fe-Mn-Si-BASED SHAPE MEMORY ALLOY WITH Nb, C ADDITION		
APPLICANT(S) FOR DO/EO/US: Takehiko KIKUCHI et al.		
Applicant hereby submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none">1. <u>XX</u> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.2. <u> </u> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.3. <u>XX</u> This is an express request to begin national examination procedures (35 USC 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.4. <u>XX</u> The US has been elected (Article 31).5. <u>XX</u> A copy of the International Application as filed (35 U.S.C. 371(c)(2)):<ol style="list-style-type: none">a. <u> </u> is transmitted herewith (required only if not transmitted by the International Bureau).b. <u>XX</u> has been transmitted by the International Bureau.c. <u> </u> is not required, as the application was filed in the United States Receiving Office (RO/US)6. <u>XX</u> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).<ol style="list-style-type: none">a. <u>XX</u> is attached hereto.b. <u> </u> has been previously submitted under 35 U.S.C. 154(d)(4).7. <u>XX</u> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))<ol style="list-style-type: none">a. <u> </u> are transmitted herewith (required only if not transmitted by the International Bureau).b. <u> </u> have been transmitted by the International Bureau.c. <u> </u> have not been made; however, the time limit for making such amendments has NOT expired.d. <u>XX</u> have not been made and will not be made.8. <u> </u> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).9. <u>XX</u> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).10. <u> </u> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
ITEMS 11. TO 20. BELOW CONCERN OTHER DOCUMENT(S) OR INFORMATION INCLUDED:		
<ol style="list-style-type: none">11. <u>XX</u> An Information Disclosure Statement under 37 CFR 1.97 and 1.98 together with the international search report, PTO-1449.12. <u>XX</u> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. ASSIGNEE NAME AND ADDRESS: NATIONAL INSTITUTE FOR MATERIALS SCIENCE, Tsukuba-shi, Japan Please publish the assignee data with the application.13. <u>XX</u> A preliminary amendment.14. <u> </u> An Application Data Sheet under 37 C.F.R. 1.7615. <u> </u> A substitute specification.16. <u> </u> A change of power of attorney and/or address letter.17. <u> </u> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 C.F.R. 1.821 - 1.825.18. <u> </u> A second copy of the published international application under 35 U.S.C. 154(d)(4).19. <u> </u> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).20. <u>XX</u> Other items or information: 2 sheets of drawings.		

U.S. APPLICATION NO. (if known) 10/519255		INTERNATIONAL APPLICATION NO. PCT/JP03/16189		DATE: December 27, 2004	
21. <u>XX</u> The following fees are submitted: Basic National Stage Fee National Stage Search Fee National Stage Examination Fee ENTER APPROPRIATE BASIC FEE AMOUNT =				CALCULATIONS \$ 300.00 \$ 500.00 \$ 200.00 \$ 1,000.00	PTO USE ONLY
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).					
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
TOTAL	14 - 20 =		X \$ 50.00		
INDEPENDENT	1 - 3 =		X \$ 200.00		
Multiple dependent claims(s) (if applicable)			+ \$360.00	\$ 360.00	
TOTAL OF ABOVE CALCULATIONS =				\$ 1,360.00	
National Stage Application Size Fee-for each additional 50 sheets that exceeds 100 sheets \$ 250.00.					
Reduction by 1/2 for filing by small entity, if applicable. (Note 37 CFR 1.9, 1.27, 1.28).					
SUBTOTAL =				\$ 1,360.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). +					
TOTAL NATIONAL FEE =				\$1,360.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$ 40.00	
TOTAL FEES ENCLOSED =				\$ 1,400.00	
				Amount to be: refunded charged	\$ \$
a. <u>XX</u> A check in the amount of \$1,400.00 to cover the above fees is enclosed. (\$300.00 for basic national stage fee; \$500.00 for national stage search fee; \$200.00 for national stage examination fee; \$360.00 for multiple dependent claims and \$40.00 for the assignment recordation cover fee). b. Please charge my Deposit Account No. 50-2866 in the amount of \$ to cover the above fees. (A duplicate copy of this sheet is enclosed.) c. <u>XX</u> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2866. NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed to request that the application be restored to pending status.					
Send All Correspondence To:			WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 Connecticut Avenue, N.W. Suite 700 Washington, D.C. 20036 CUSTOMER No. 38834		
Typed or Printed Name: Stephen G. Adrian			Reg. No.: 32,878		
Signature 			Date: December 27, 2004		

SGA/yap